## WHAT IS CLAIMED IS:

- 1. (Currently amended) A pelletized fill material for a halogen lamp comprising rhenium and a halogen bromine.
  - 2. (Cancelled).
- 3. (Currently amended) The lamp fill material of Claim 2 1 comprising a bromide of rhenium.
- 4. (Currently amended) The lamp fill material of Claim 2 1 comprising rhenium tribromide.
- 5. (Currently amended) The lamp fill material of Claim 1 A pelletized fill material for a halogen lamp comprising a mixture of a metal and a halide of rhenium.
- 6. (Original) The lamp fill material of Claim 5 comprising a mixture of rhenium and rhenium tribromide.
- 7. (Original) The lamp fill material of Claim 1 consisting essentially of rhenium and bromine.
- 8. (Original) The lamp fill material of Claim 7 consisting essentially of a mixture of rhenium and rhenium tribromide.
- 9. (Original) A pellet suitable for delivering a predetermined amount of rhenium tribromide into a lamp, said pellet comprising a metal and rhenium tribromide.
- 10. (Original) The pellet of Claim 9 wherein said metal has a melting temperature greater than about 1000°C and does not react with rhenium tribromide to form a stable bromide.

- 11. (Original) The pellet of Claim 9 wherein said metal comprises one or more metals from the group consisting of rhenium, palladium, platinum, rhodium, gold, molybdenum, and tungsten.
  - 12. (Original) The pellet of Claim 11 wherein said metal comprises rhenium.
  - 13. (Original) The pellet of Claim 11 wherein said metal comprises palladium.
- 14. (Original) The pellet of Claim 11 wherein said metal comprises an alloy of two or more metals.
- 15. (Original) The pellet of Claim 14 wherein said metal comprises an alloy of rhenium and palladium.
- 16. (Original) The pellet of Claim 11 wherein said metal comprises a mixture of two or more metals.
- 17. (Original) The pellet of Claim 9 consisting essentially of said metal and rhenium tribromide.
- 18. (Original) The pellet of Claim 17 wherein said metal has a melting temperature greater than about 1000°C and does not react with rhenium tribromide to form a stable bromide.
- 19. (Original) The pellet of Claim 17 wherein said metal comprises one or more metals from the group consisting of rhenium, palladium, platinum, rhodium, gold, molybdenum, and tungsten.
  - 20. (Original) The pellet of Claim 19 wherein said metal comprises rhenium.

21. (Original) The pellet of Claim 9 comprising between about zero weight percent and about 25 weight percent rhenium tribromide.

- 22. (Original) The pellet of Claim 21 comprising about 0.5 weight percent rhenium tribromide.
  - 23. (Original) The pellet of Claim 9 forming a disc.
  - 24. (Original) The pellet of Claim 9 forming a sphere.
- 25. (Original) The pellet of Claim 9 wherein no dimension of said pellet is greater than about 2mm.
- 26. (Original) The pellet of Claim 9 suitable for introduction into a lamp through a tube having an inside diameter of about 2 mm.
- 27. (Original) The pellet of Claim 9 wherein the rhenium tribromide component of said pellet will sublime at temperatures greater than about 200°C.
- 28. (Original) The pellet of Claim 27 wherein the rhenium tribromide component of said pellet will decompose at temperatures greater than about 400°C.
- 29. (Original) The pellet of Claim 9 wherein the rhenium tribromide component of said pellet will decompose at temperatures greater than about 400°C.
- 30. (Original) A pellet suitable for delivering a predetermined amount of a halide of rhenium into the interior of the light emitting chamber of a lamp, said pellet comprising a metal and a halide of rhenium.
  - 31. (Original) The pellet of Claim 30 comprising rhenium tribromide.
- 32. (Original) The pellet of Claim 30 wherein said metal comprises one or more metals from the group consisting of rhenium, palladium, platinum, rhodium, gold, molybdenum, and tungsten.

- 33. (Original) The pellet of Claim 32 wherein said metal consists essentially of rhenium.
- 34. (Original) The pellet of Claim 33 wherein the density of said pellet is between about 50 % and about 100 % of the density of pure rhenium.
- 35. (Original) The pellet of Claim 33 comprising about 0.5 weight percent rhenium tribromide and about 99.5 weight percent rhenium.
- 36. (Original) The pellet of Claim 30 comprising a mixture of metal powder and rhenium tribromide powder, wherein said metal does not react with said rhenium tribromide to form a stable bromide.
- 37. (Original) The pellet of Claim 30 comprising between about 2  $\mu$ g and about 2000  $\mu$ g rhenium tribromide.
- 38. (Original) In a method of dosing a lamp with lamp fill material including the step of introducing a pellet comprising the lamp fill material into the interior of the light emitting chamber of the lamp, the improvement wherein the pellet comprises rhenium tribromide.
- 39. (Original) The method of Claim 38 wherein said pellet consists essentially of rhenium and bromine.
- 40. (Original) The method of Claim 38 wherein said pellet comprises a metal and rhenium tribromide.
- 41. (Original) The method of Claim 40 wherein said metal comprises one or more metals from the group consisting of rhenium, palladium, platinum, rhodium, gold, molybdenum, and tungsten.

- 42. (Original) The method of Claim 38 wherein said lamp is a halogen lamp having a tungsten filament.
- 43. (Original) In a method of introducing a predetermined amount of rhenium and a halogen into the interior of the light emitting chamber of a halogen lamp, the improvement comprising the step of introducing a pellet comprising rhenium tribromide into the interior of the chamber.
- 44. (Original) The method of Claim 43 wherein said pellet comprises a metal and rhenium tribromide.
- 45. (Original) The method of Claim 43 wherein said pellet material consists essentially of rhenium and rhenium tribromide.

Claims 46-67 (withdrawn).

- 68. (Original) A tungsten halogen lamp comprising:
- a sealed light emitting chamber formed from light transmissive material;
- a tungsten filament mounted internally of said chamber; and
- a pellet internally of said chamber, said pellet comprising rhenium tribromide.
- 69. (Original) The lamp of Claim 68 wherein said pellet comprises a metal and rhenium tribromide.
- 70. (Original) The lamp of Claim 69 wherein said metal comprises one or more metals from the group consisting of rhenium, palladium, platinum, rhodium, gold, molybdenum, and tungsten.
- 71. (Original) The lamp of Claim 70 wherein said pellet consists essentially of rhenium and rhenium tribromide.

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- 72. (Original) The lamp of Claim 70 wherein said pellet consists essentially of palladium and rhenium tribromide.
- 73. (Original) The lamp of Claim 68 wherein said pellet sublimes at temperatures greater than about 200°C and decomposes at temperatures greater than about 400°C.
- 74. (Original) The lamp of Claim 68 wherein said pellet is mechanically mounted within the light emitting chamber.
- 75. (Original) The lamp of Claim 74 wherein said pellet is mechanically secured within a wire coil.
  - 76. (Original) A tungsten halogen lamp comprising:
  - a sealed light emitting chamber formed from light transmissive material;
  - a tungsten filament mounted internally of said chamber; and
- a pellet internally of said chamber, said pellet comprising a metal and a halide of rhenium.
- 77. (Original) The lamp of Claim 76 wherein said pellet consists essentially of rhenium and bromine.
- 78. (Original) The lamp of Claim 76 wherein said pellet consists essentially of rhenium and rhenium tribromide.
  - 79. (Original) The lamp of Claim 76 wherein said pellet generally forms a disc.
- 80. (Original) The lamp of Claim 76 wherein said pellet is mechanically secured within the chamber.
- 81. (Currently amended) A halogen lamp comprising a lamp fill pellet mechanically secured in a fixed position within the light emitting chamber of the lamp so

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that there is substantially no relative movement between said pellet and said light emitting chamber.

- 82. (Original) The lamp of Claim 81 wherein said pellet comprises rhenium tribromide.
- 83. (Original) The lamp of Claim 81 wherein said pellet is mechanically secured within a glass tube integral with the chamber wall.

Claims 84-85 (withdrawn).

86. (Original) A pelletized fill material for a halogen lamp responsive to temperature for releasing bromine and rhenium over time.